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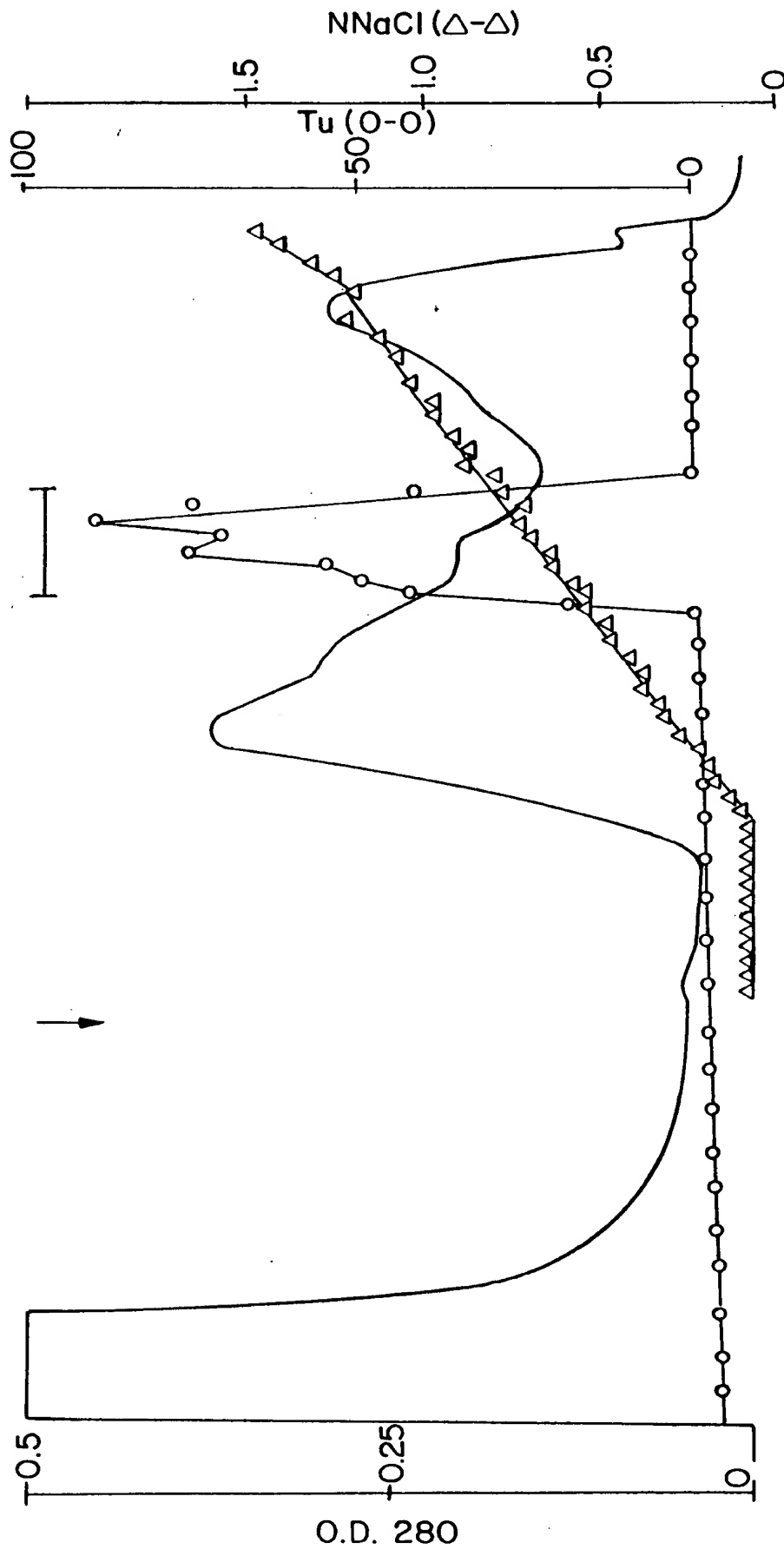


FIG.1

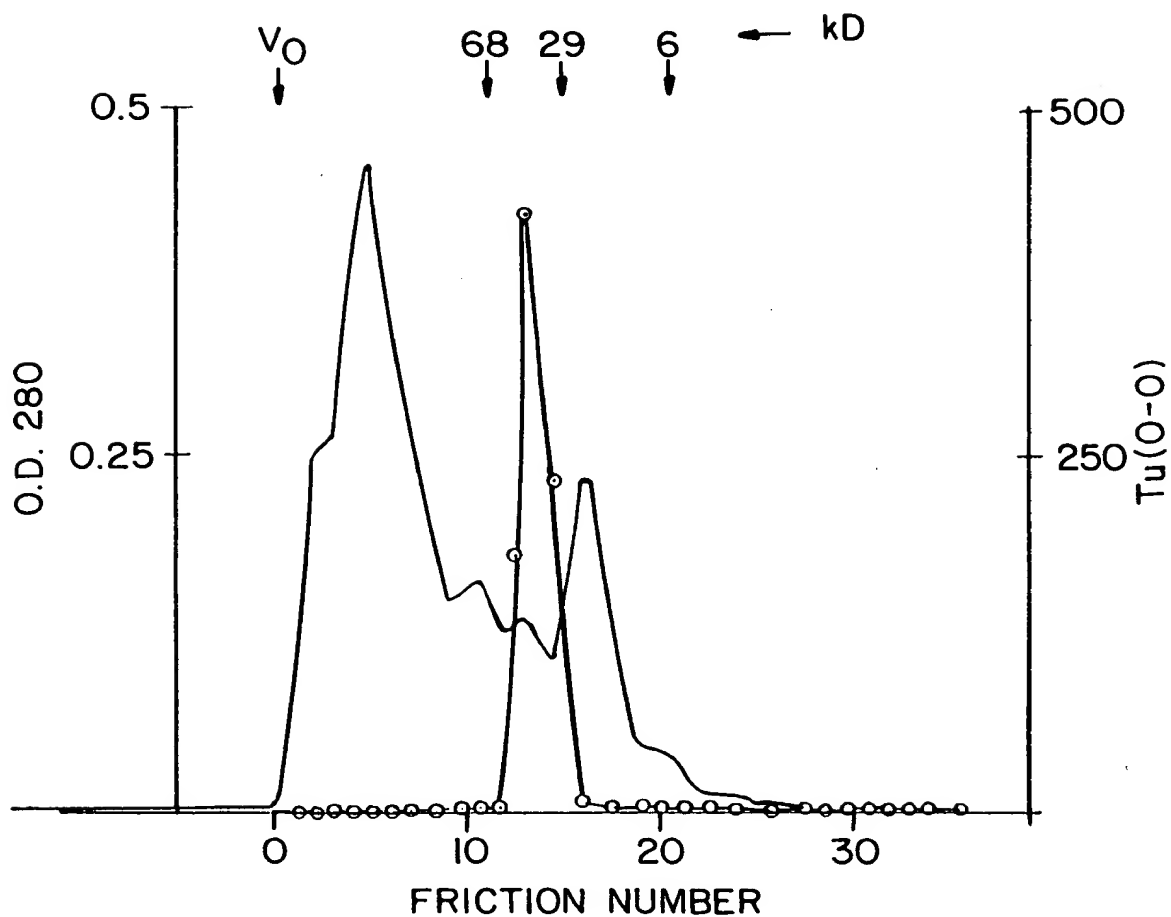


FIG.2

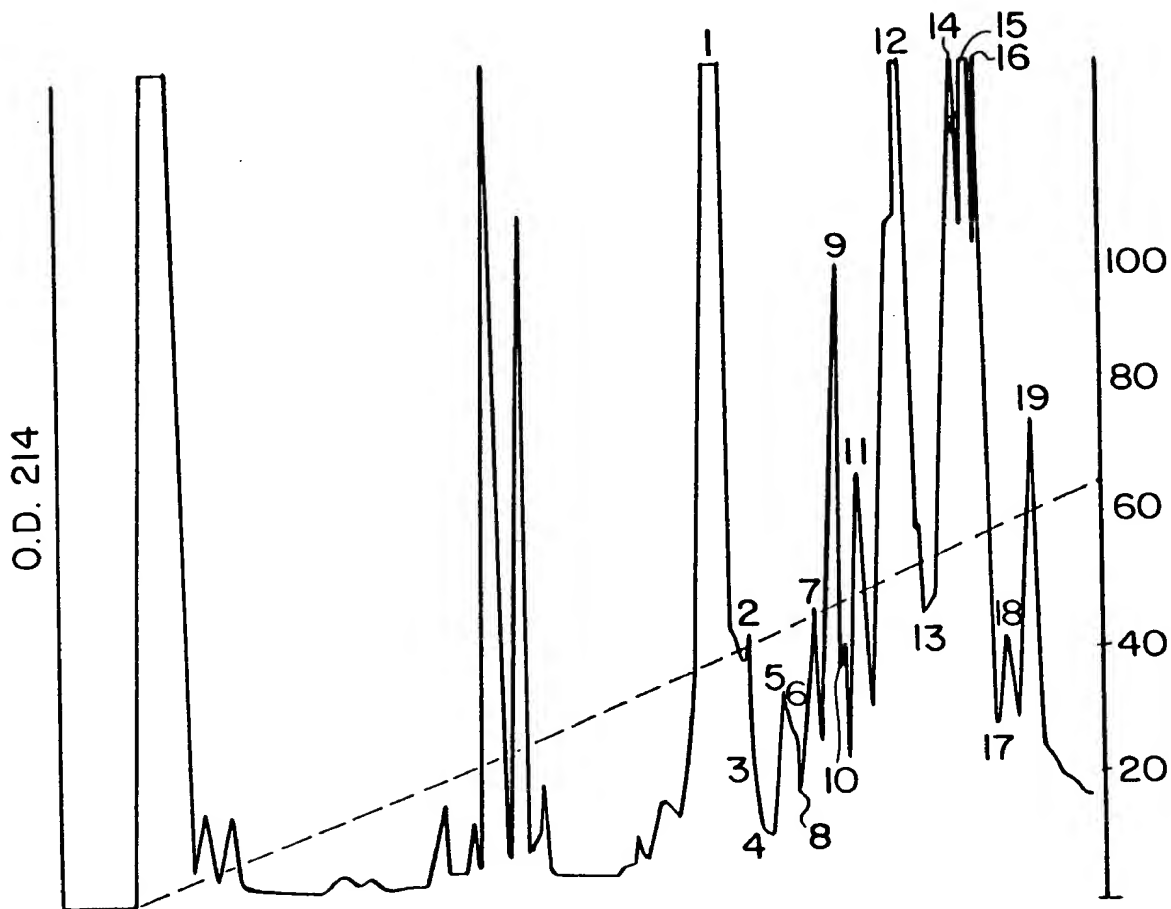


FIG.3A

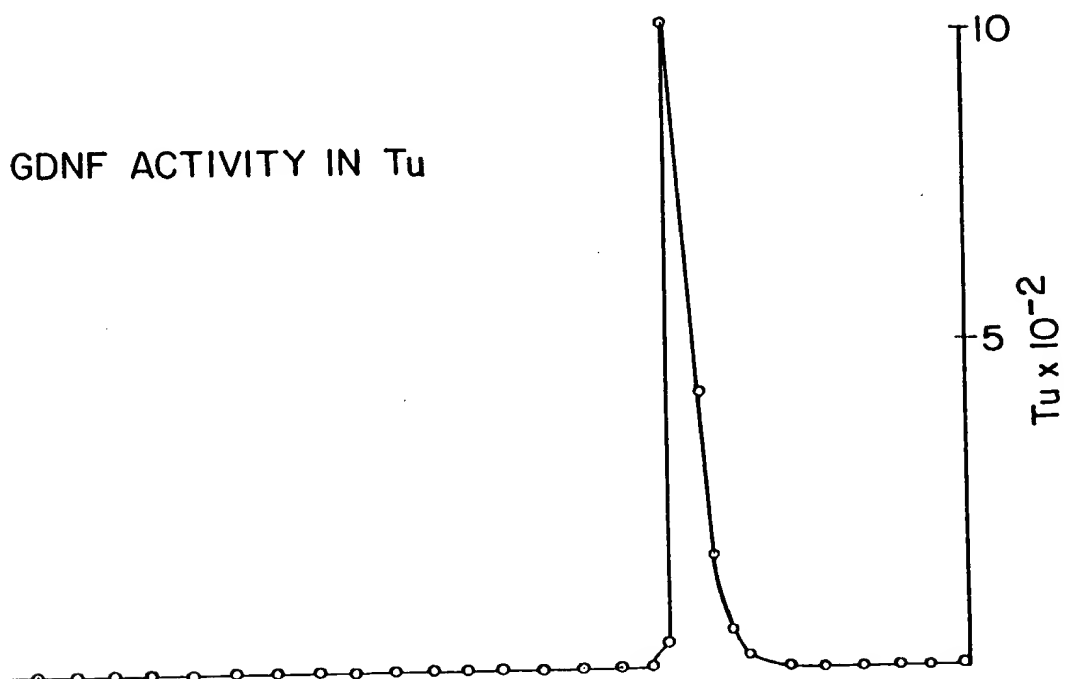


FIG.3B



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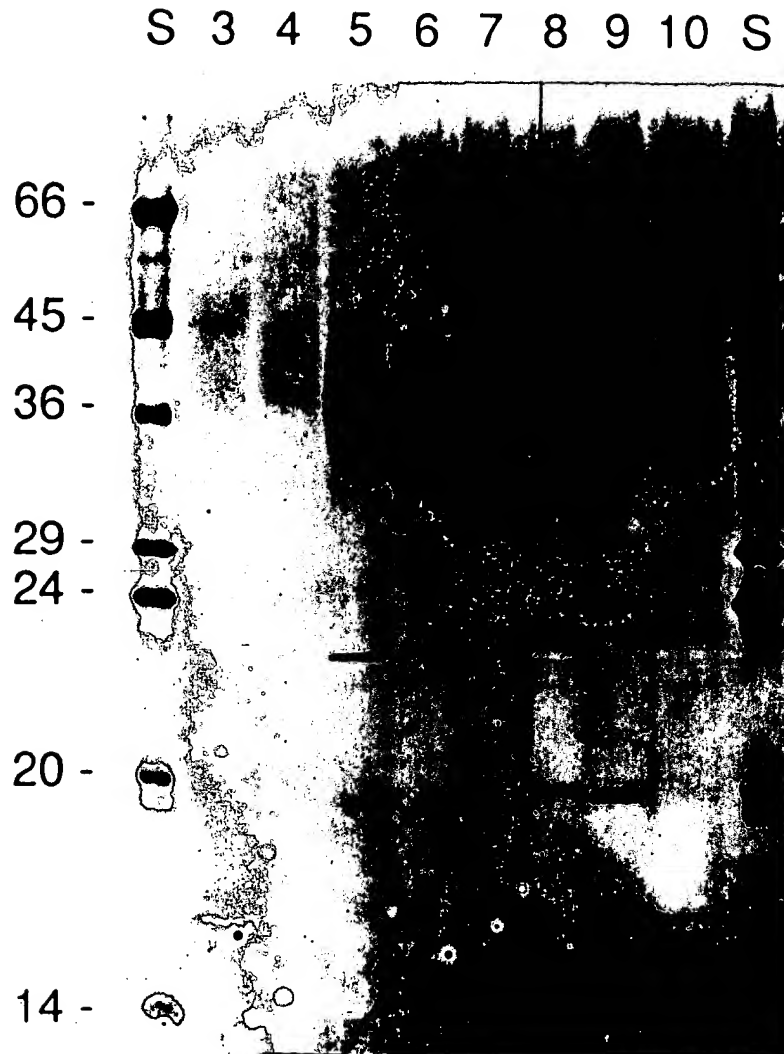


FIG.4

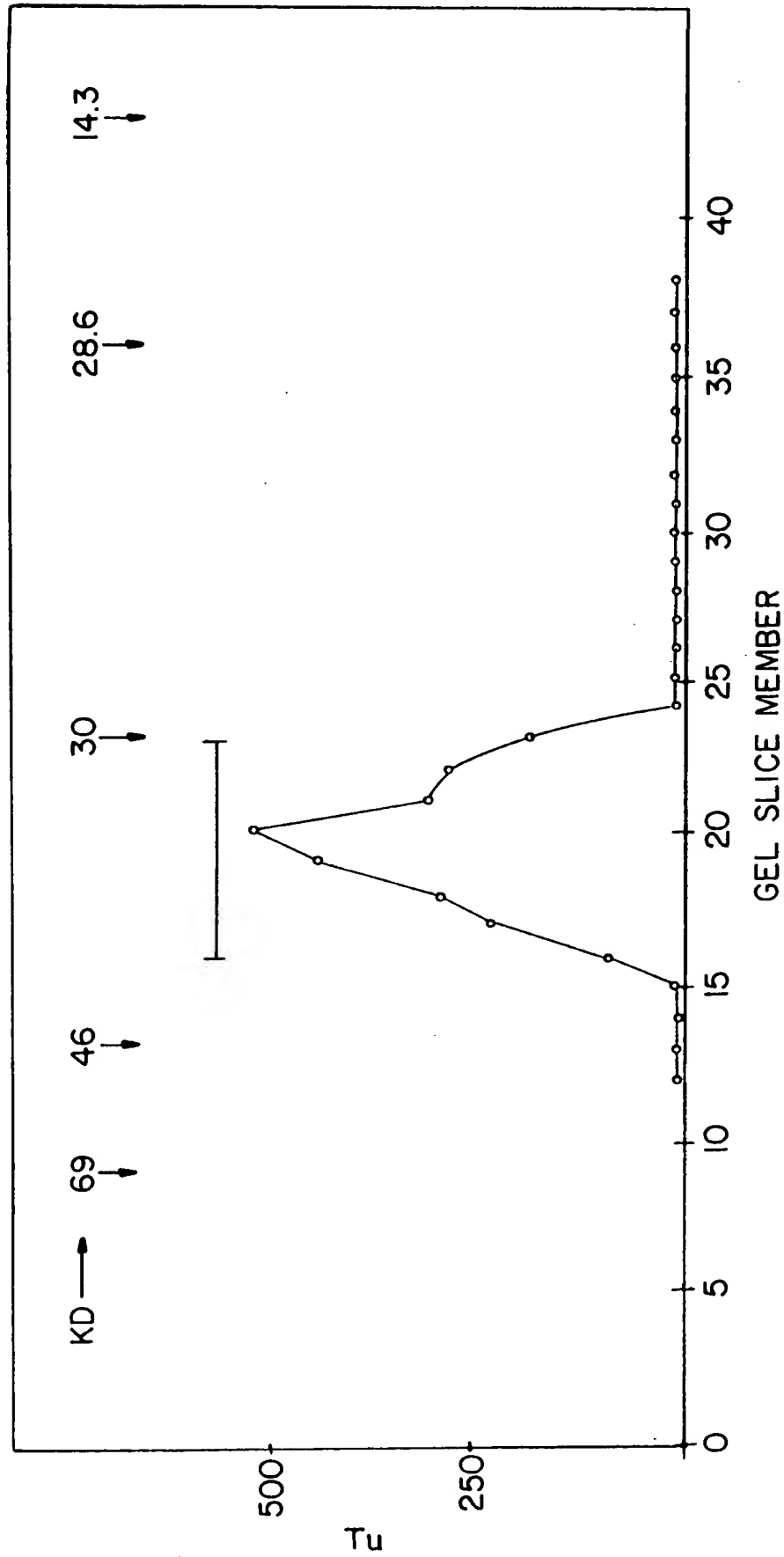


FIG.5

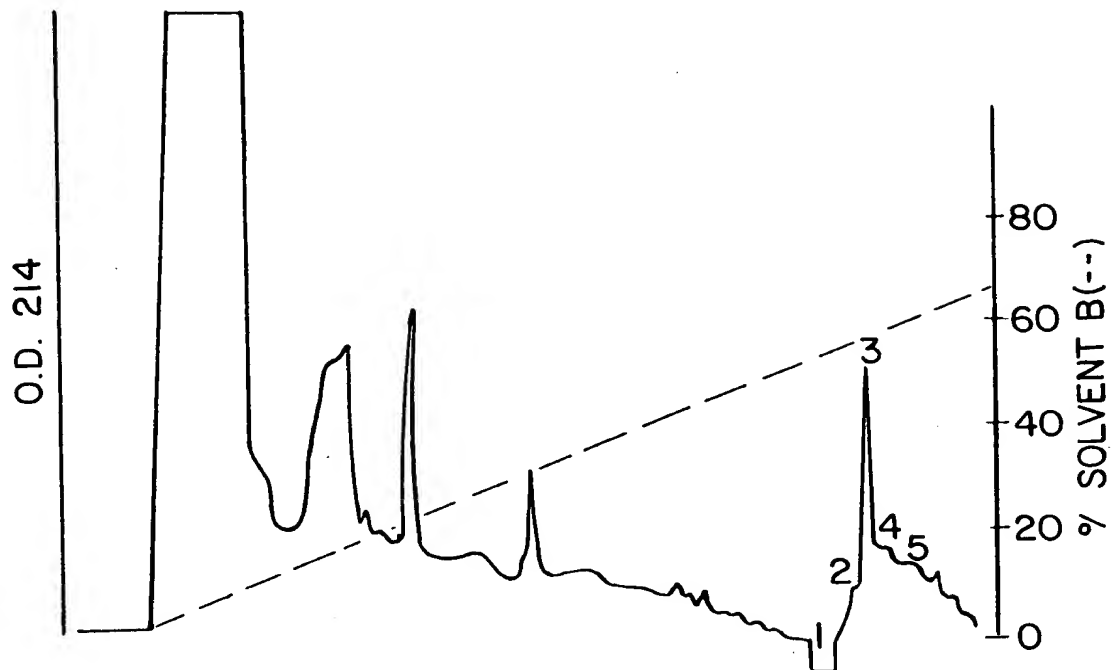


FIG. 6A

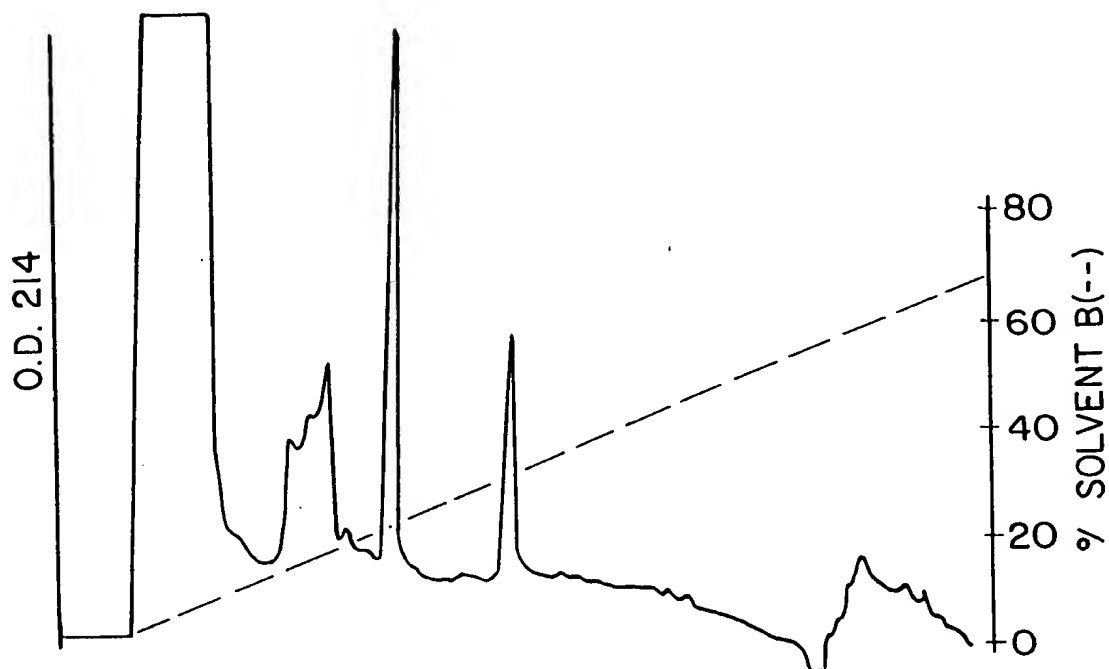


FIG. 6B

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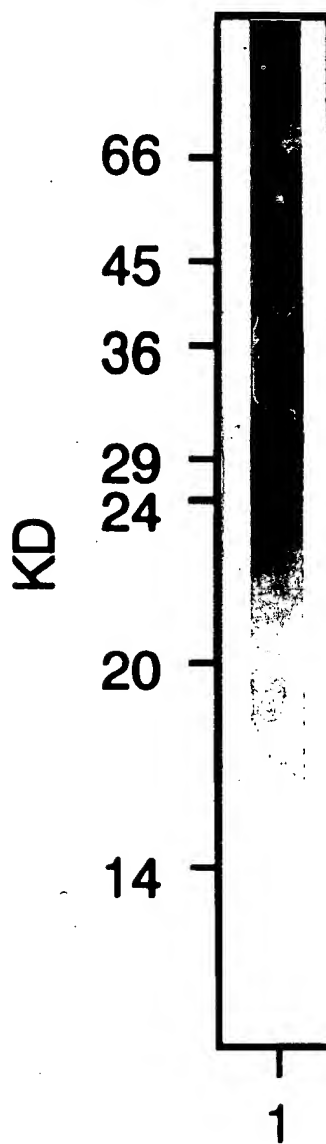


FIG. 7



FIG. 8

(Ser) - Pro-Asp-Lys-Gln-Ala-Ala-Leu-Pro-Arg-Arg-Glu-
(Arg) - Asn - () * - Gln-Ala-Ala-Ala - (Ser) - Pro - (Asp) - (Asn)

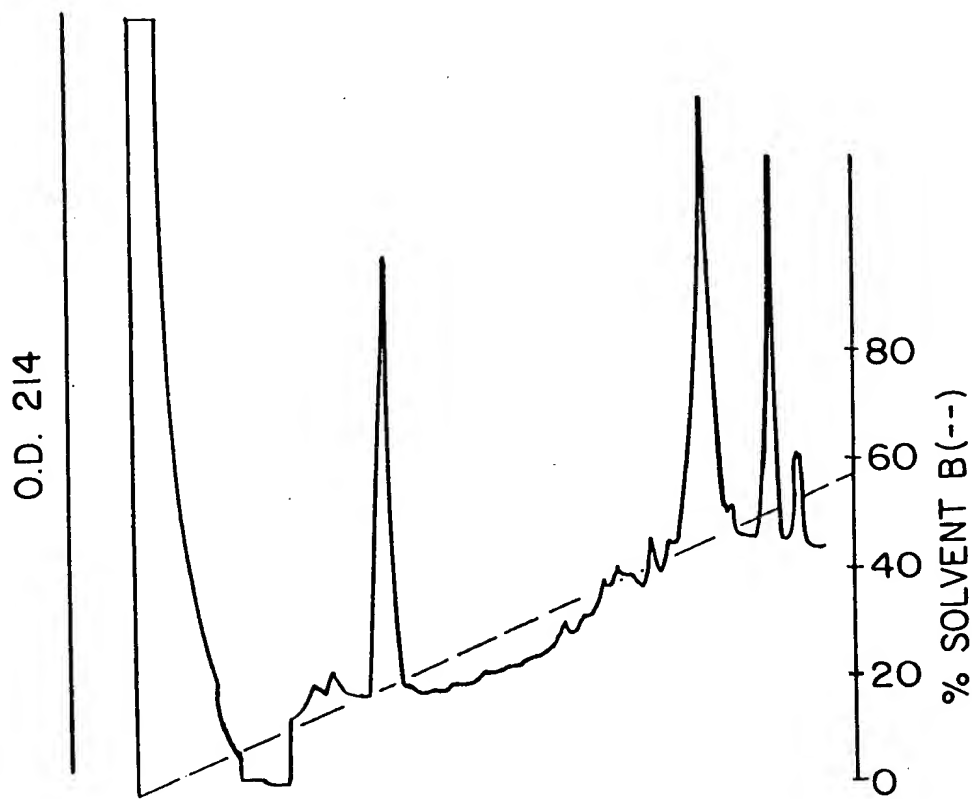


FIG. 9A

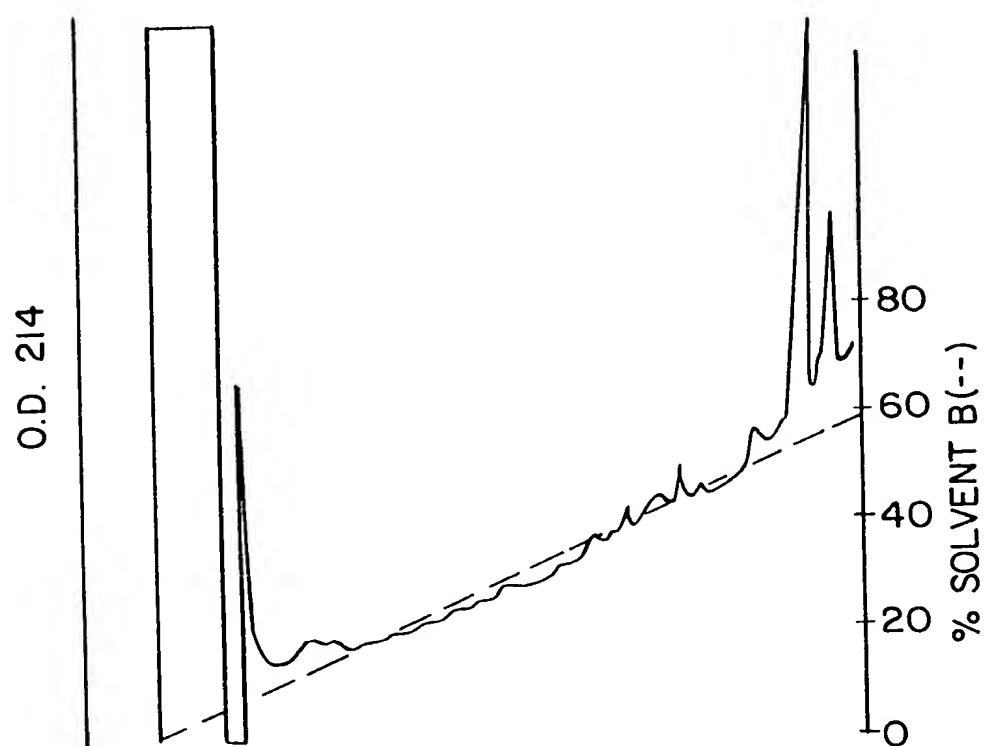


FIG. 9B

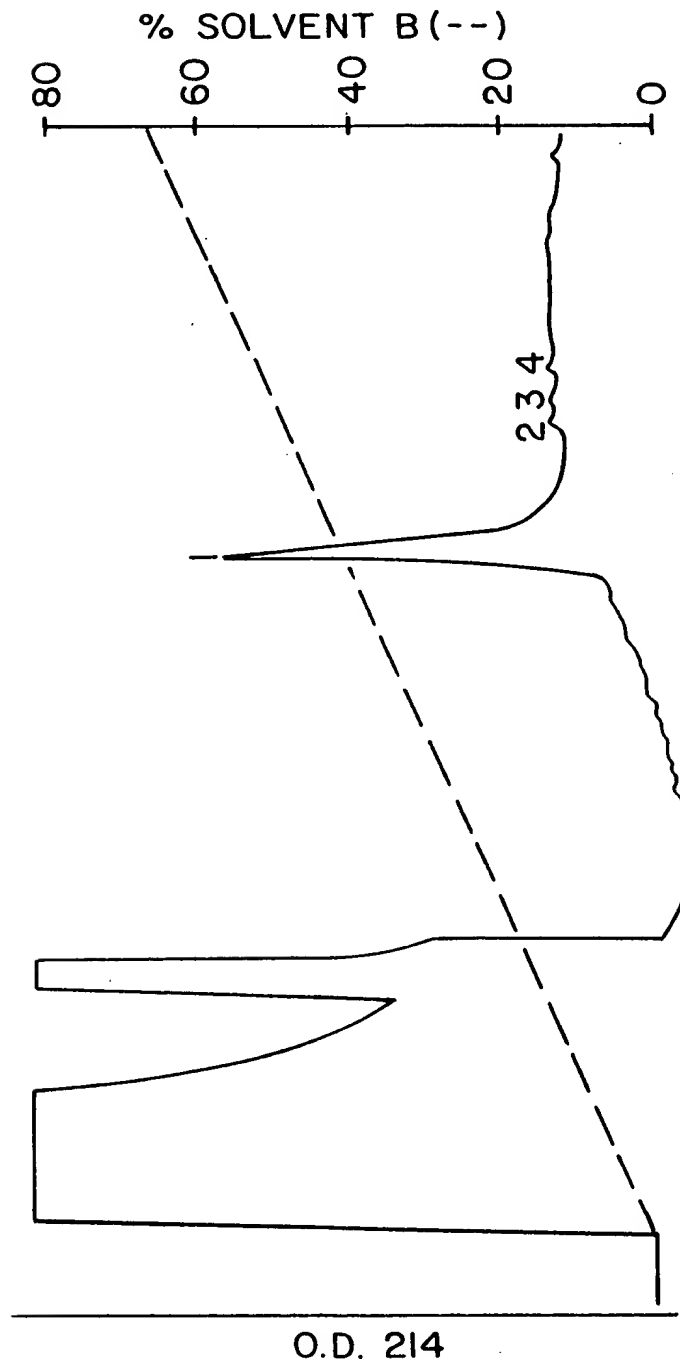


FIG.10

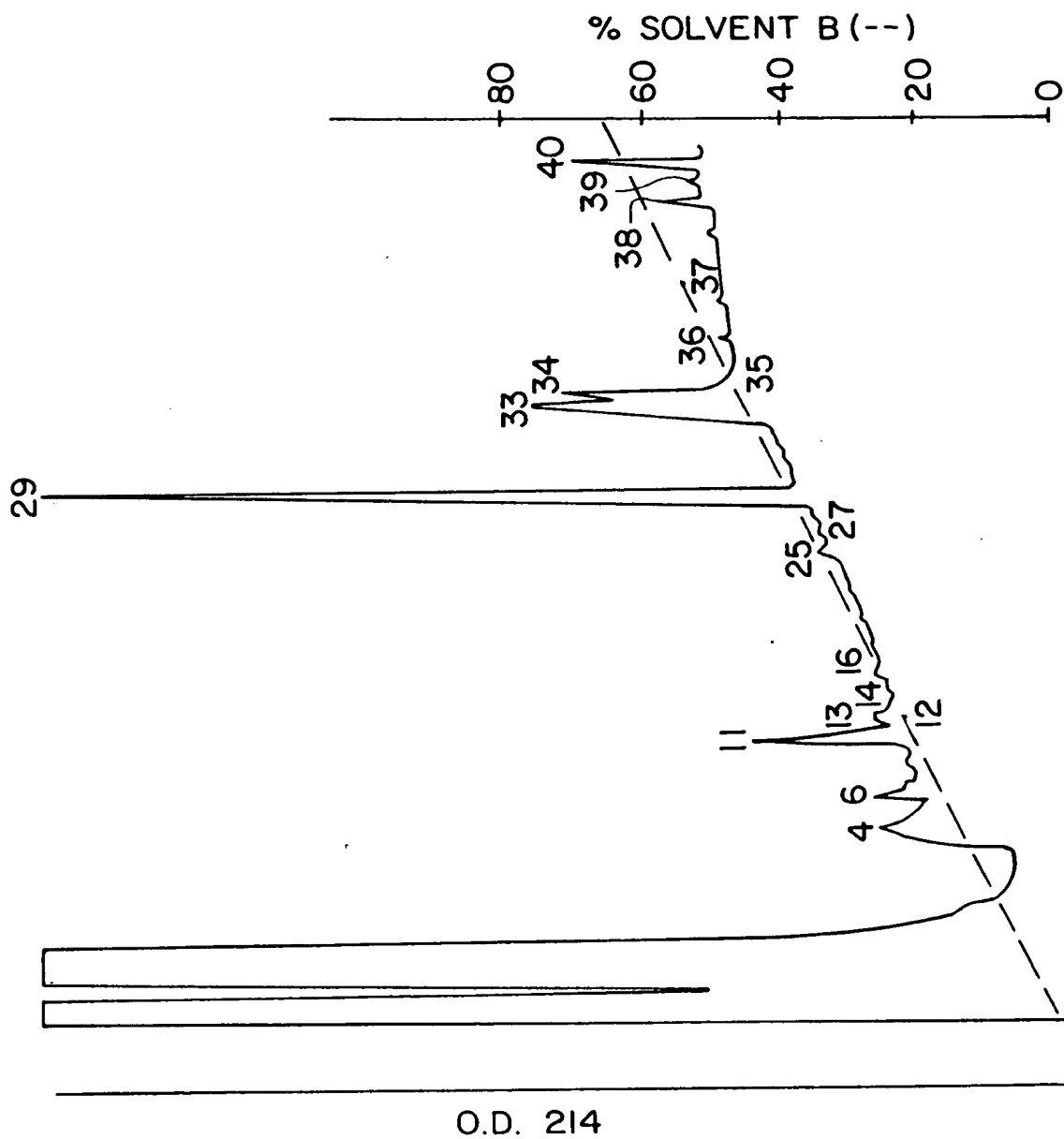


FIG.11



FIG.12

Asp - (Lys/Gln) - Ile - Leu - Lys - Asn - Leu - (Gly) * - (Arg) - (Val) -
(Arg) - (Arg) - Leu



FIG. 13A

[illegible]



412
AGA GGG AAA GGT CGC AGA GGC CAG AGG GGC AAA AAT CGG GGG TGC GTC TTA ACT
R G K G R R G Q R G K N R G C V L T

466
GCA ATA CAC TTA AAT GTC ACT GAC TTG GGT TTG GGC TAC GAA ACC AAG GAG GAA
A I H L N V T D L G L G Y E T K E E

520
CTG ATC TTT CGA TAT TGT AGC GGT TCC TGT GAA GCG GCC GAG ACA ATG TAC GAC
L I F R Y C S G S C E A A E T M Y D

574
AAA ATA CTA AAA AAT CTG TCT CGA AGT AGA AGG CTA ACA AGT GAC AAG GTA GGC
K I L K N L S R S R S R L T S D K V G

628
CAG GCA TGT TGC AGG CCG GTC GCC TTT GAC GAC GAC CTG TCG TTT TTA GAC GAC
Q A C C R P V A F D D D L S F L D D

682
AGC CTG GTT TAC CAT ATC CTA AGA AAG CAT TCC GCT AAA CGG TGT GGA TGT ATC
S L V Y H I L R K H S A K R C G C I

745
TGA CCCTGGCTCC AGAGACTGCT GTGTAATTGCA TTCCTGCTAC AGTGCGAAGA AAGGGACCAA

815
GGTTCCAGG AAATATTTCG CCAGAAAGGA AGATAAGGAC CAAGAAGGCA GAGGCAGAGG CGGAAGAAGA

875
AGAAGAAAAG AAGGACGAAG GCAGCCATCT GTGGAGCCT GTAGAAGGAG GCCCAGCTAC AG

FIG.13B



FIG.14

S	P	D	K	Q	A	A	A	A	A	A	S	P	E	N	S
L	P	R	R	E	R	N	R	Q	A	A	A	C	V	L	T
R	G	K	G	R	R	G	Q	R	G	N	G	T	K	E	E
A	I	H	L	N	V	T	D	L	G	A	Y	T	M	Y	D
L	I	F	R	Y	C	S	G	S	E	A	A	T	D	V	G
K	I	L	K	N	L	S	R	S	R	L	T	D	K	L	D
Q	A	C	C	R	P	V	A	F	D	D	S	F	L	D	I
S	L	V	Y	H	I	L	R	K	H	A	R	C	G	C	

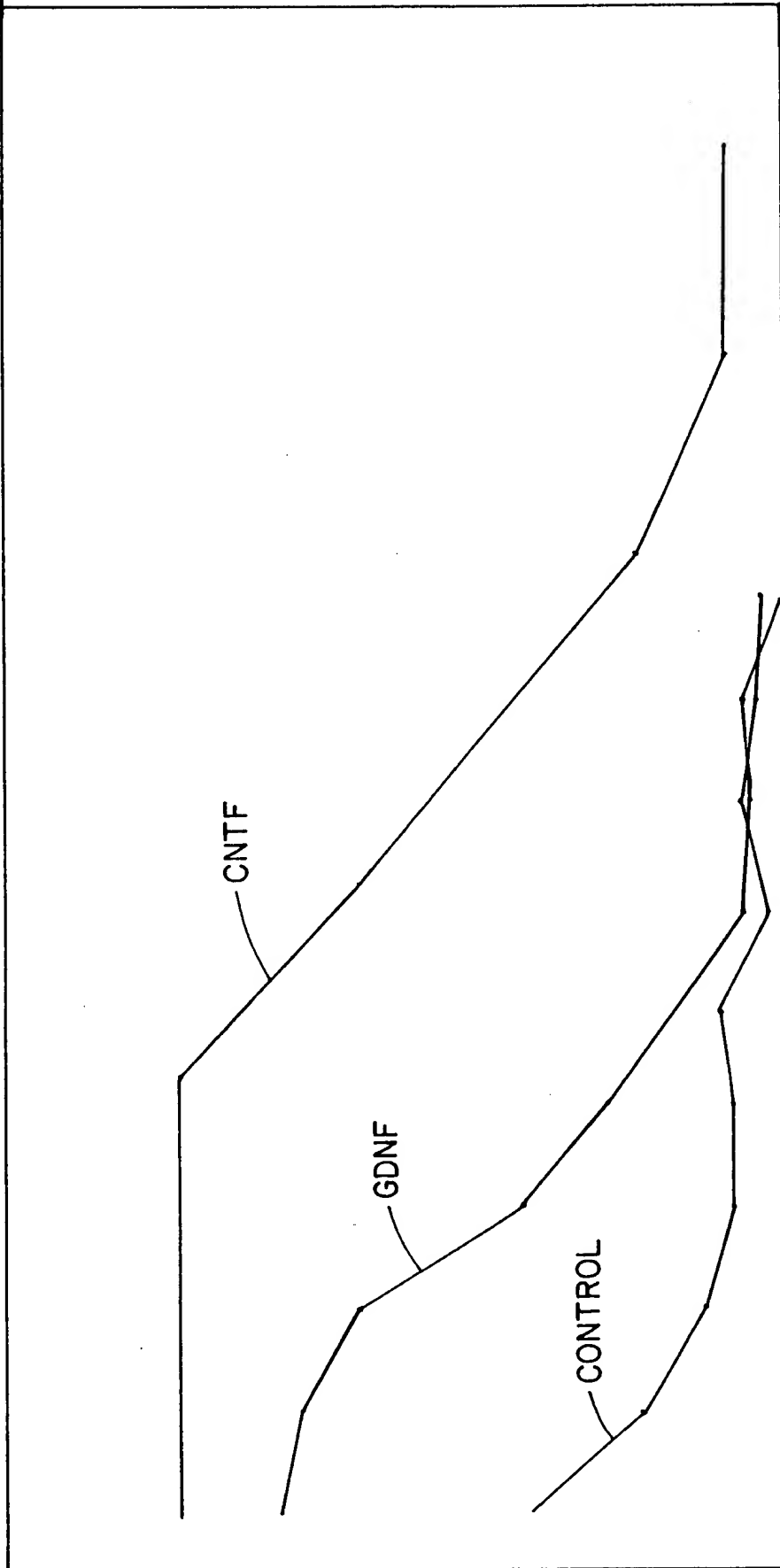


FIG. 15

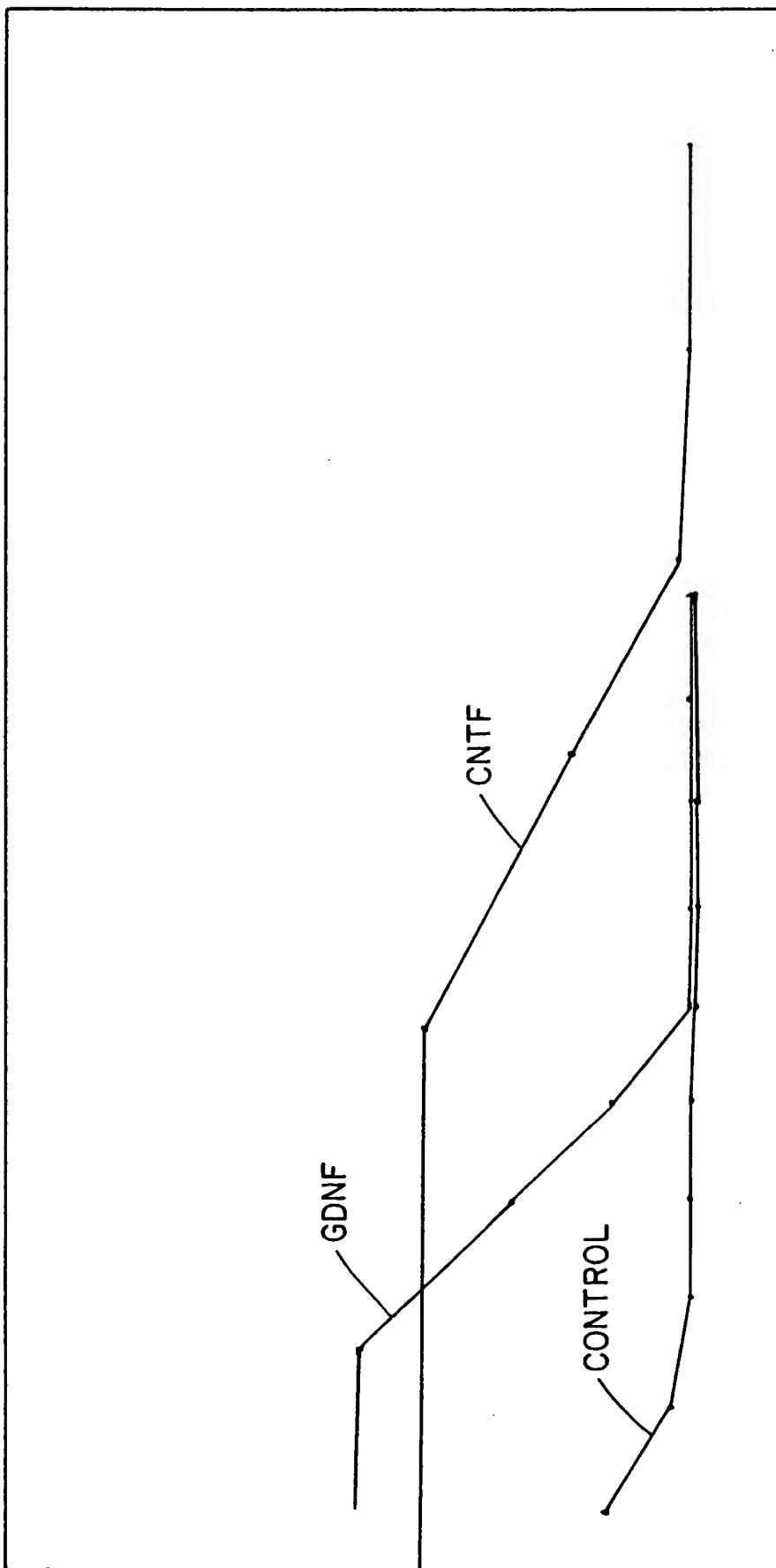


FIG.16

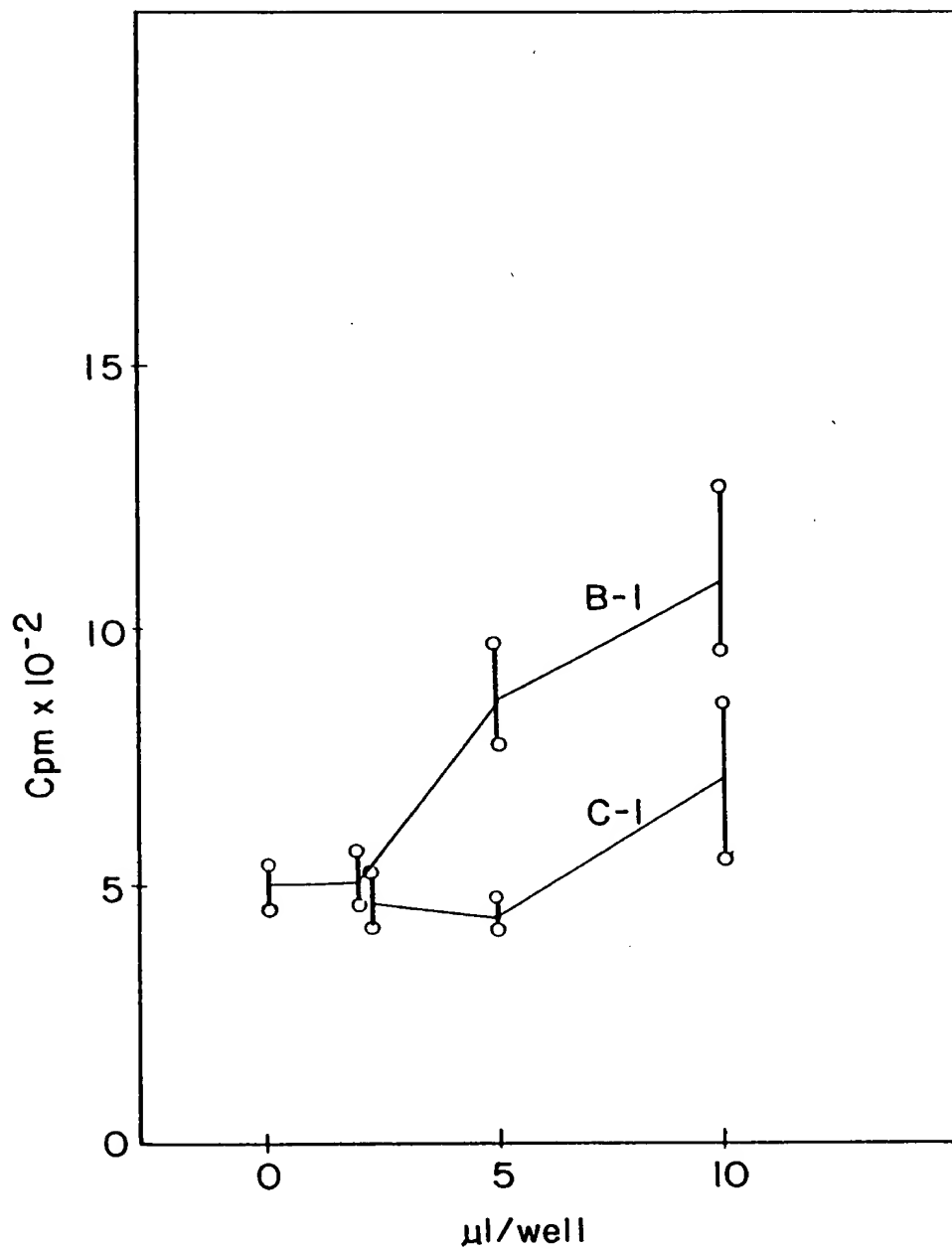


FIG.17

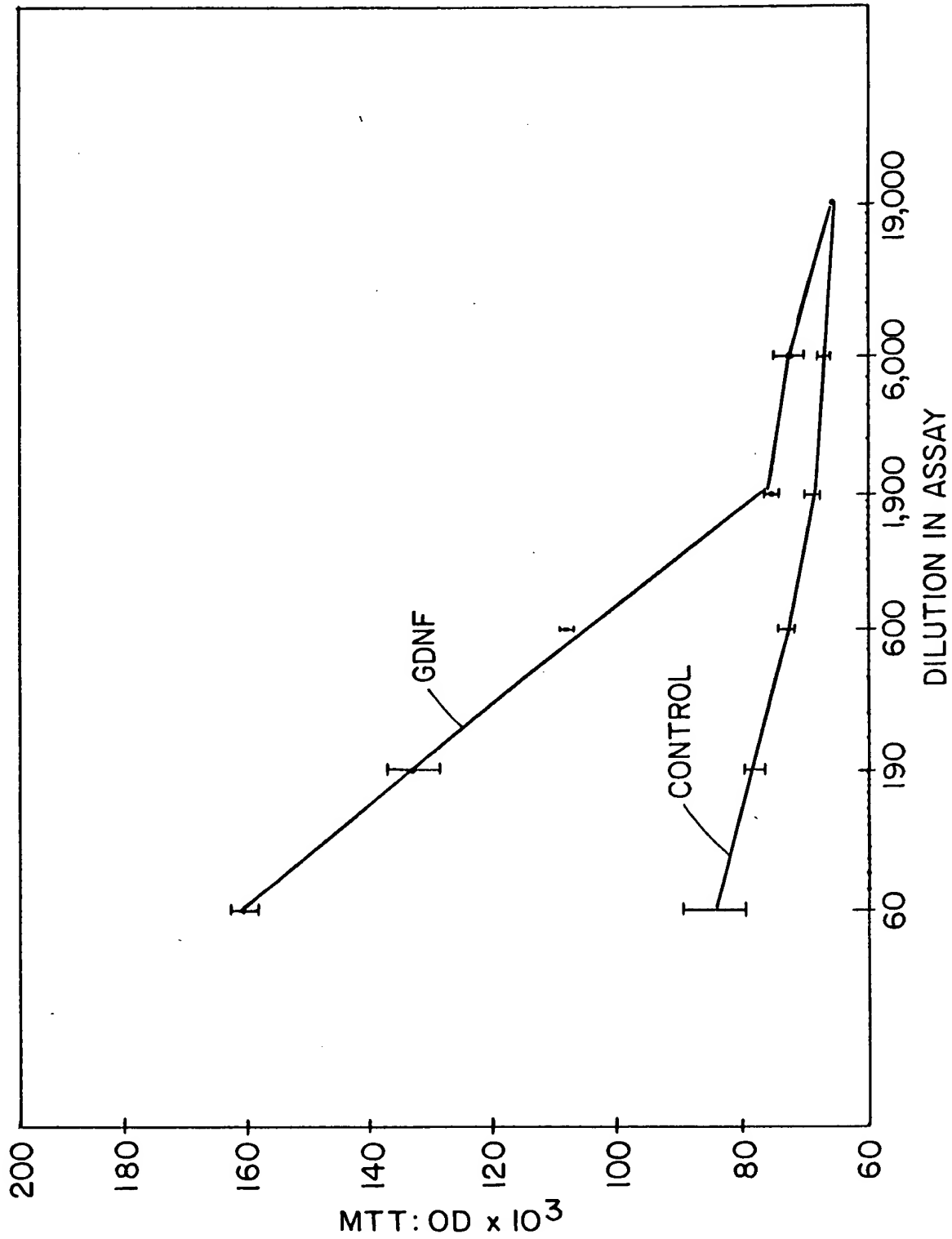
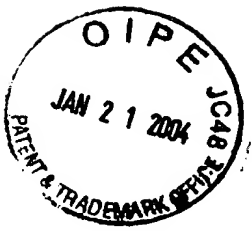


FIG.18

FIG. 19A

68
attttctcttttcttttgaacag CA AAT ATG CCA GAG GAT TAT CCT GAT CAG TTC GAT GAT GTC ATG
N M P E D Y P D Q Q F D D V M

131
GAT TTT ATT CAA GCC ACC ATT AAA AGA CTG AAA AGG TCA CCA GAT AAA CAA ATG GCA GTG CTT
D F I Q A T I K R L K R S P D K Q M A V L

194
CCT AGA AGA GAG CGG AAT CGG CAG GCT GCA GCT GCC AAC CCA GAG AAT TCC AGA GGA AAA GGT
P R E R N Q A A A A A N P E N S R G K G

257
CGG AGA GGC CAG AGG GGC AAA AAC CGG GGT TGT GTC TTA ACT GCA ATA CAT TTA AAT GTC ACT
R R G Q R G K N R G C V L T A I H L N V T

320
GAC TTG GGT CTG GGC TAT GAA ACC AAG GAG GAA CTG ATT TTT AGG TAC TGC AGC GGC TCT TGC
D L G L G Y E T K E E L I F R Y C S G S C

383
GAT GCA GCT GAG ACA ACG TAC GAC AAA ATA TTG AAA AAC TTA TCC AGA AAT AGA AGG CTG GTG
D A A E T T Y D K I L K N L S R N R R L V

446
ACT GAC AAA GTA GGG CAG GCA TGT TGC AGA CCC ATC GCC TTT TTT GAT GAT GTC TCG TTT TTA
S D K V G Q A C C R P I A F D D D L S F L





FIG. 19B

509

GAT	GAT	AAC	CTG	GTT	TAC	CAT	ATT	CTA	AGA	AAG	CAT	TCC	GCT	AAA	AGG	TGT	GGA	TGT	ATC	TGA
D	D	N	L	V	Y	H	I	L	R	K	H	S	A	K	R	C	G	C	I	.

562

ctccggctccagagactgctgtgtattgcattcctctgtctacagtgcacaaagaag

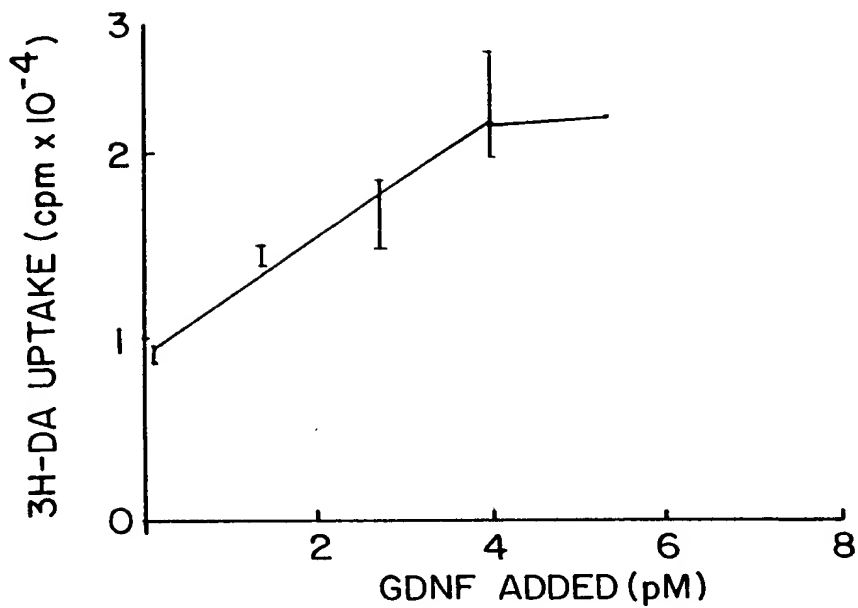


FIG.20A

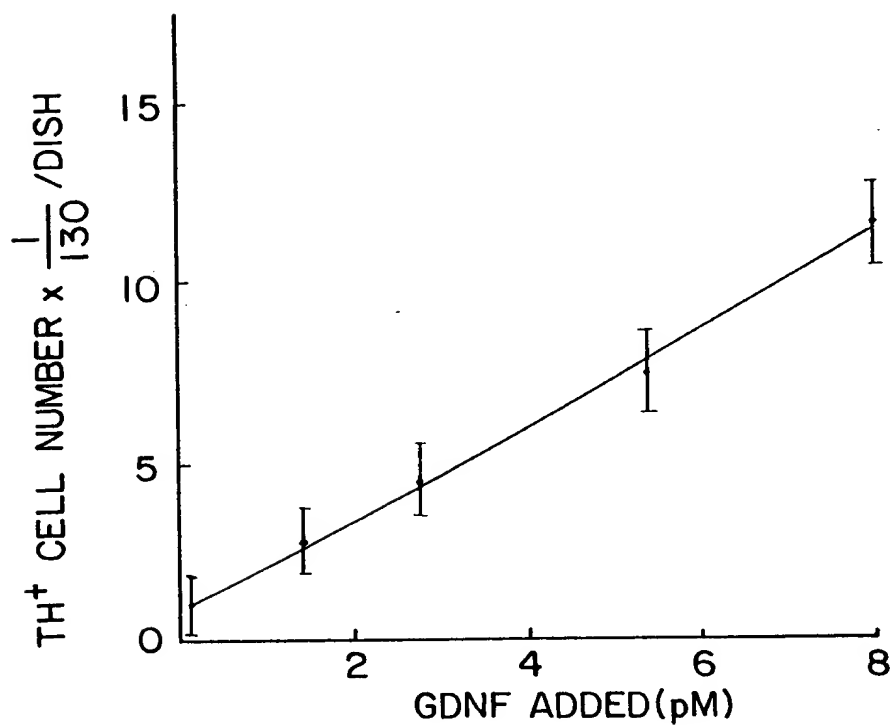


FIG.20B

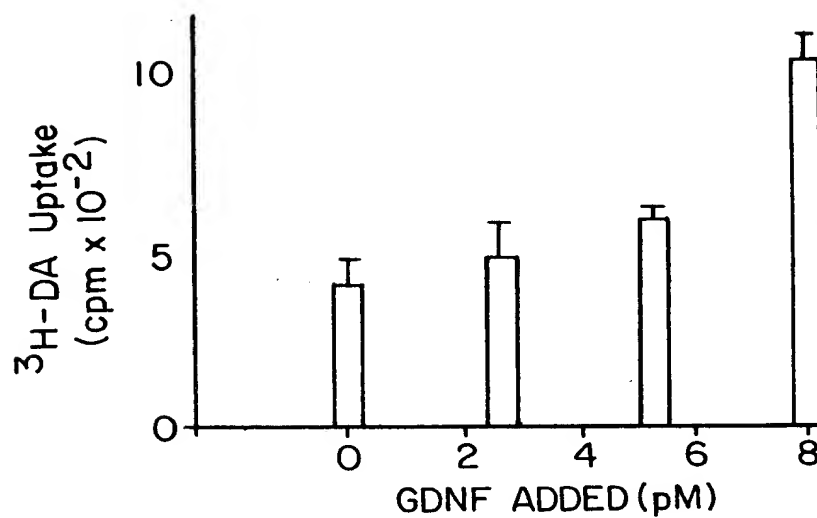


FIG.21A

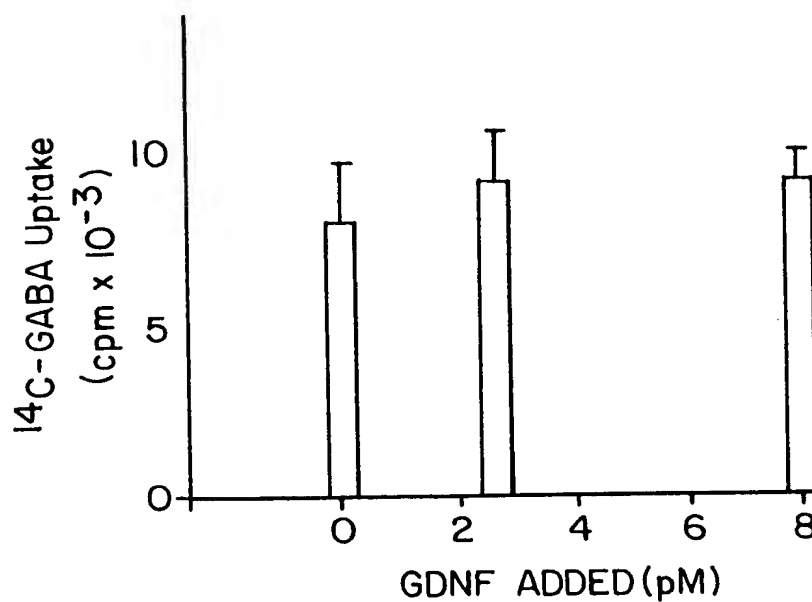


FIG.21B

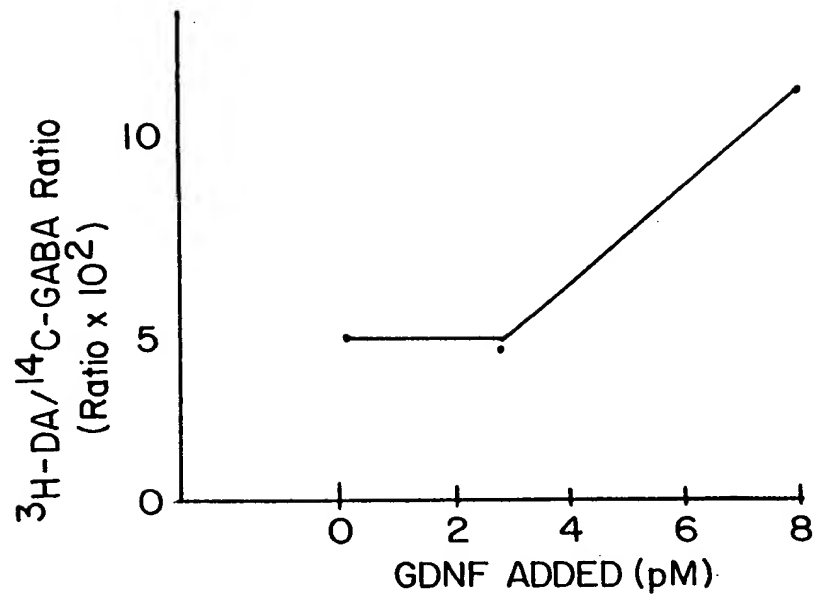


FIG.21C



FIG.22

43
ttctctccccacctcccgctgccgcgca gGT GCC GCC GCC
G A A A
97
GGA CGG GAC TTT AAG ATG AAG TTA TGG GAT GTC GTG GCT GTC TGC CTG GTG CTG
G R D F K M K L W D V V A V C L V L
*
151
CTC CAC ACC GCG TCC GCC TTC CCG CTG CCC GCC GGT AAG AGG CCT CCC GAG GCG
L H T A S A F P L P A G K R P P E A
205
CCC GCC GAA GAC CGC TCC CTC GGC CGC CGC CGC TTC GCG CTG AGC AGT
P A E D R S L G R R R A P F A L S S
223
GAC Tgtaagaaccgttcc
D

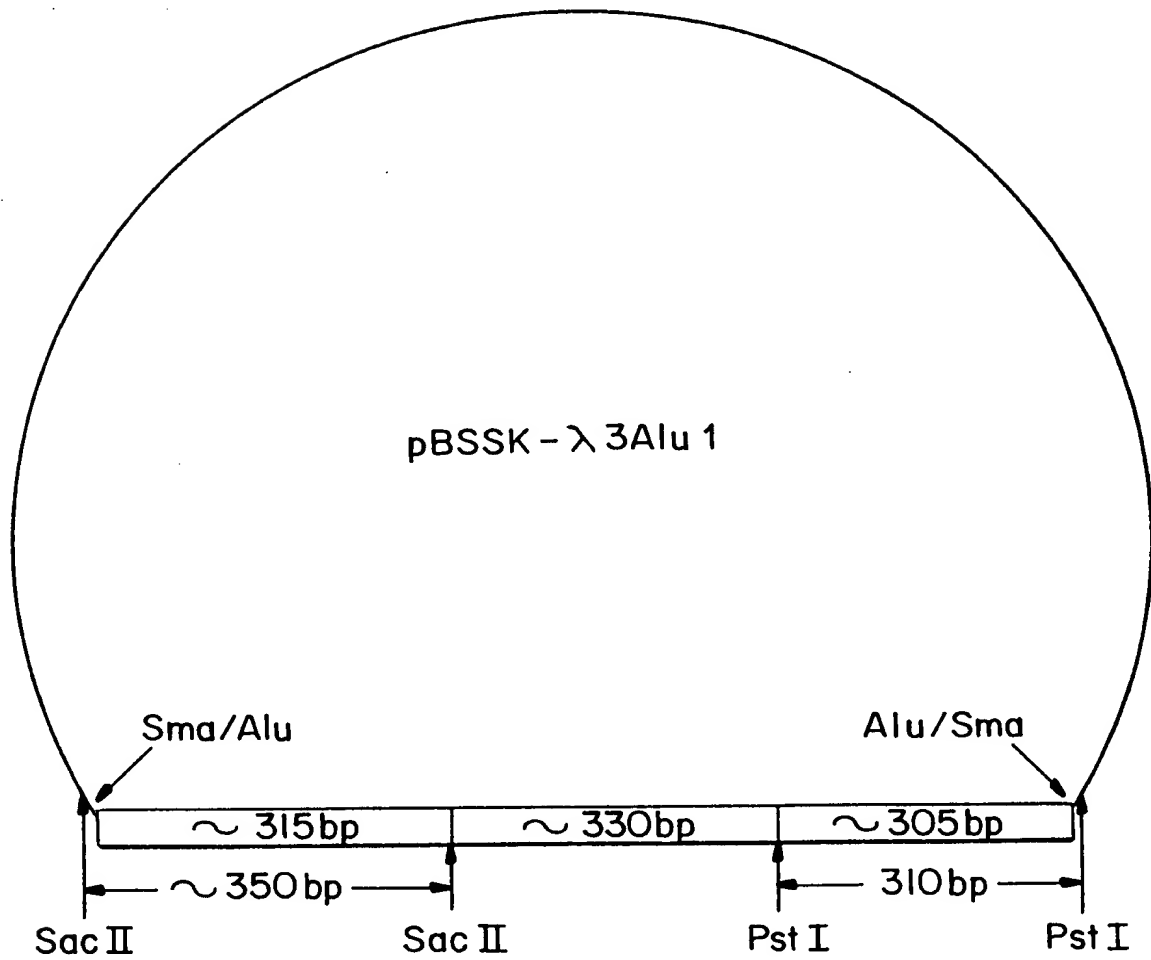


FIG.23

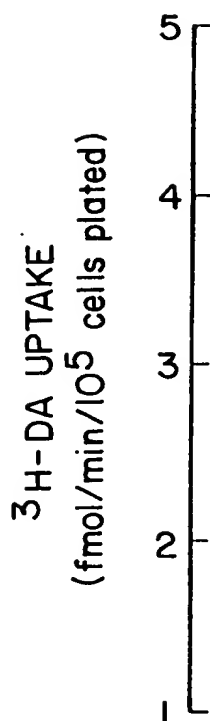


FIG.24A

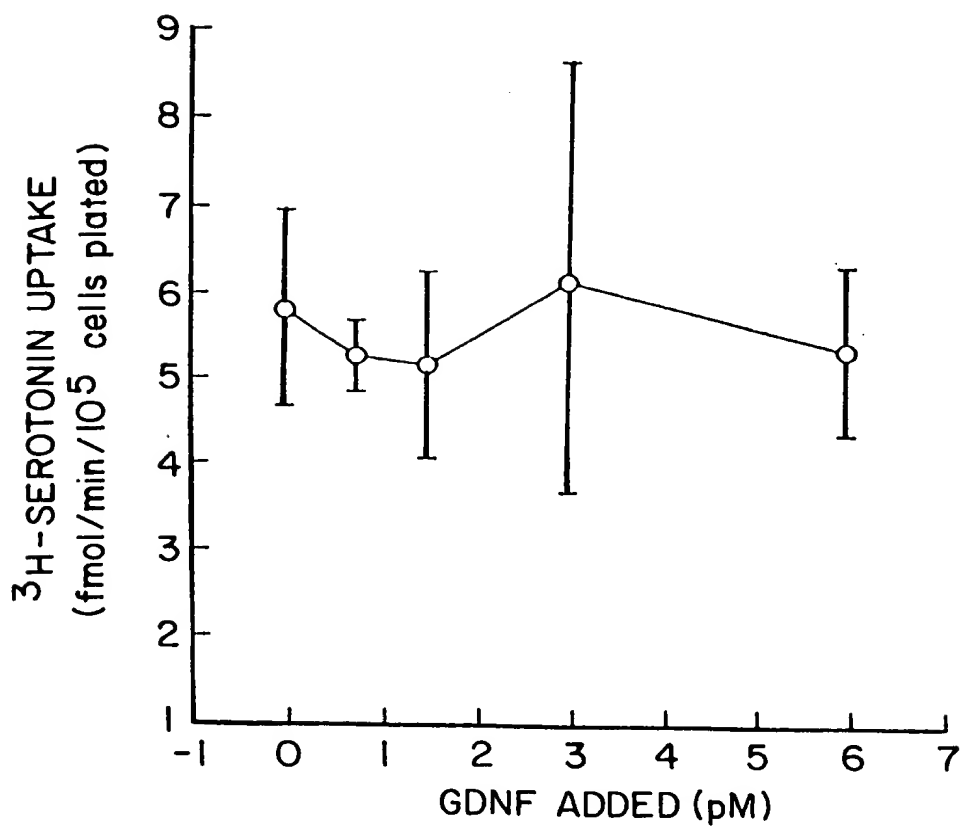


FIG.24B

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012104

NUCLEIC ACIDS ENCODING GLIAL CELL LINE-DERIVED
NEUROTROPHIC FACTOR (GDNF) (As Amended Hereby)
LIN, *et al.*
Non-Provisional USSN: 08/182,183

Sheet 28 of 31

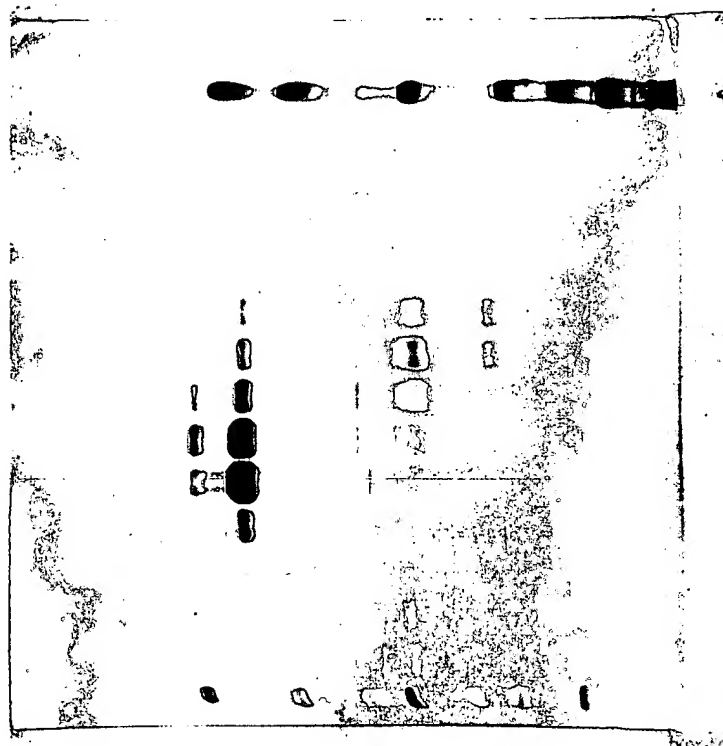


FIG. 25

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FIG.26

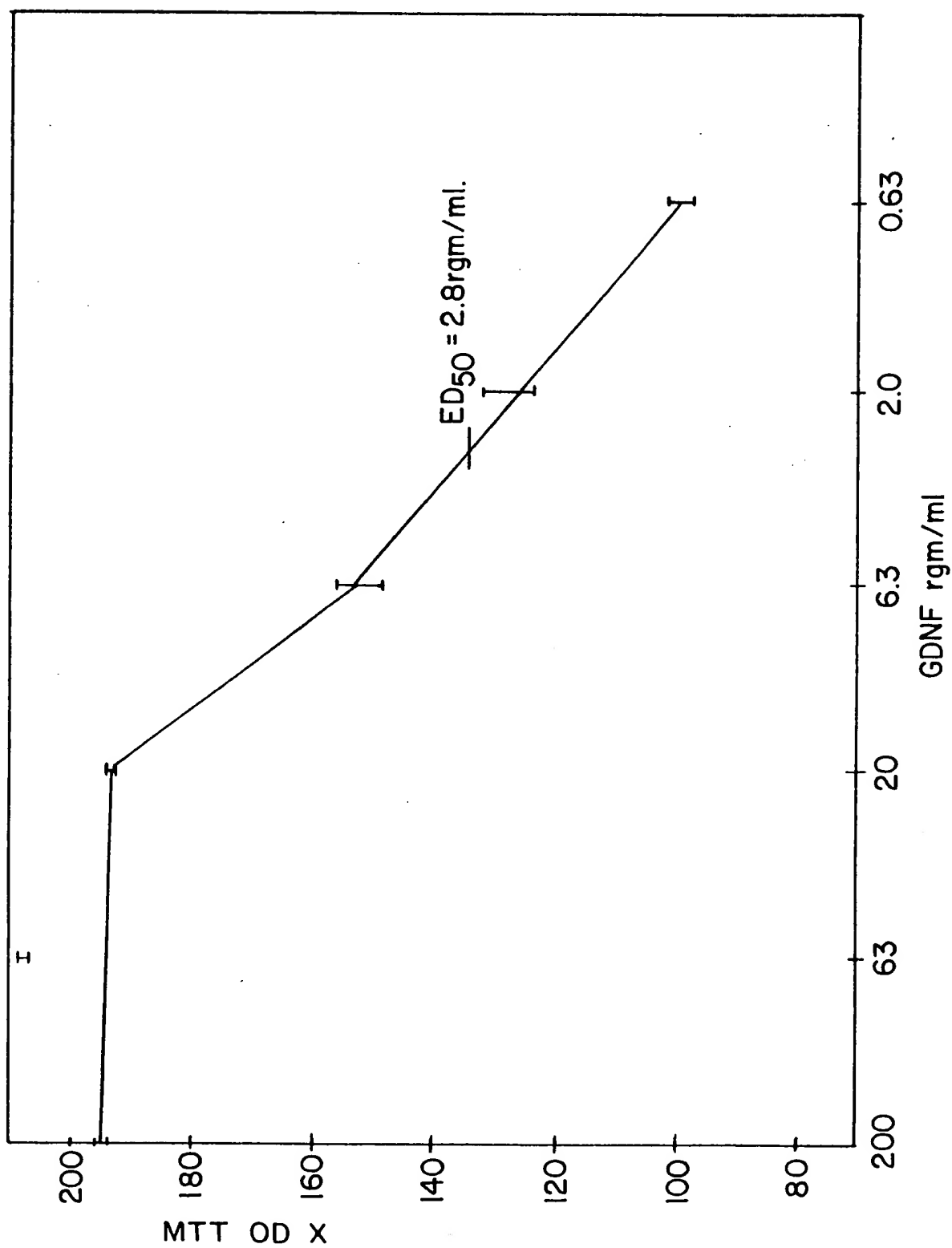


FIG.27

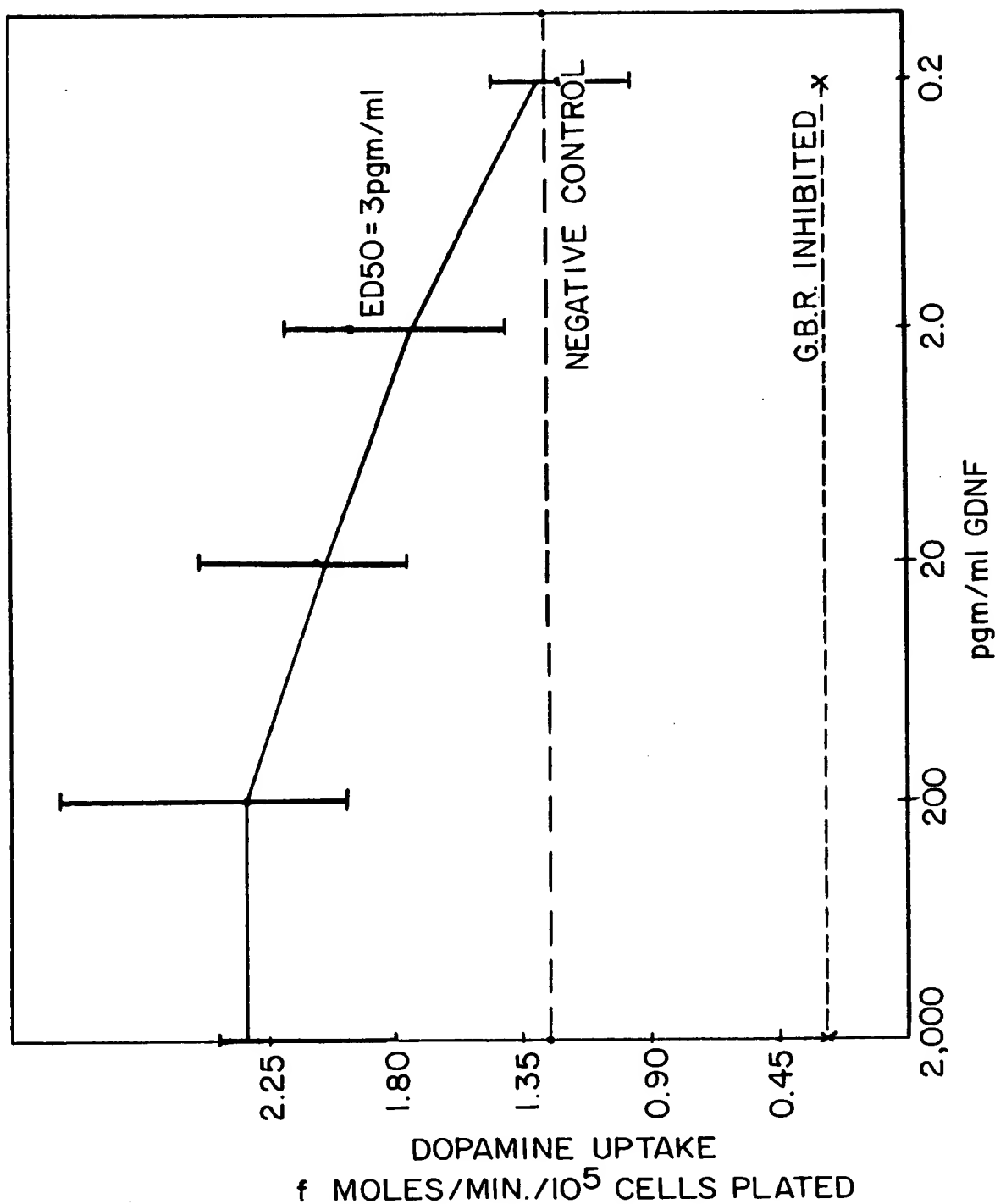


FIG.28